

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

10/552,394

Source:

FWO

Date Processed by STIC:

8/22/06

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/552,394

TIME: 10:04:37

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

```

3 <110> APPLICANT: Western Sydney Area Health Service
4     Tianjin Biochip Technology Corporation
6 <120> TITLE OF INVENTION: Identification of Streptococcus pneumoniae serotypes
8 <130> FILE REFERENCE: 502338
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/552,394
C--> 10 <141> CURRENT FILING DATE: 2005-10-07
10 <150> PRIOR APPLICATION NUMBER: AU 2003901717
11 <151> PRIOR FILING DATE: 2003-04-10
13 <160> NUMBER OF SEQ ID NOS: 492
15 <170> SOFTWARE: PatentIn version 3.1
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 4000
19 <212> TYPE: DNA
20 <213> ORGANISM: Streptococcus pneumoniae
22 <400> SEQUENCE: 1
23 gtcaaactctg tcttgattga aaacactgcg gctaaagaag tacttgaaaa acaggtccttg      60
24 gctccatggg atgctttctg tgtggaatta ctataaatat tttttgcaga aaaattttaa      120
25 attgaaatcg tataaaaaaca agggaggact gtataaaaga cagaaatcct ttgtttttta      180
26 taaccaaagt ttataaaactt tcattcctga aattcaatta actttacaaa ttccactat      240
27 taaggagaaa gaagatgaac ataaagaagc gtgtccttag tgcaggcctg acttttgcac      300
28 ctgctttgct tttagctgct tgcggccaat cagggttcaga taaaaaaact tactcatcaa      360
29 cctttagtgg aaatccaact acattttaact atctattaga ctattacgct gataatatag      420
30 ttaattgaaa caagaacaag acaaaagagc ctcataaaag gtattgcaac ttggtaatac      480
31 cttttttgagg tgctttttga tatgagccca tgttttctca ataggattgt actcagggtga      540
32 gtagggagga agaggtaaaa gtttataccc aaactcttca cacaagagtt ctaacttacc      600
33 cattctatgg aatcttgcac tatccataat aataaccgat ggtgtgttta atgttggtaa      660
34 gagaaatttc tgaaaccaag cttcaaaaaa gtcgctcgct atcgctctct cgtaagttaa      720
35 tggagcgatt aactcaccat ttgttagacc tgcaaccaa gaaatcctct gatattctct      780
36 tccagatact ttgcctcttc ttaactgacc ttttaatgag cgaccatatt ctcgataaaa      840
37 ataagtatcg aatcctgttt catcaatcta aacagggtgct aggtgcttta aactattaaa      900
38 attcttaaga aataaggcta ctttttctgg gttttgttca tagtaggtgt gggtcttttt      960
39 ttcgagtgtg gcccatagct ttgagcgcat agtggatggt agttggatga cagccaaatt     1020
40 cagaagctat ttcagtcaaa taagcgtctg gattgtcagt aagatagttt ttaagtctat     1080
41 ctctatcaac ttttcttggt tttgttcctt ttacttggtg gtttagctct cctgttttct     1140
42 ctttttagctt taaccagcca taaatggtat tacgtgatat ttggaaaacg tgtgatgctt     1200
43 ctgttatact acctgttcgc tcacaataag agagaacttt ttacgaaaa tctattgaat     1260
44 atgccataag aagattatac cacatttgtt actatattag attgaaacta gaatagtaca     1320
45 cctctgtctt taaaacattg ttagaaatcg atttgactgt cctgaacgat ttgttctggt     1380
46 cttatttcat tttactatat ttttgtttcg cgggaagtct actaagatac ttaaagatgc     1440
47 agatagtaaa aataaagggtg tagacattac cgtaaaaaaag tgatataatc gtatagtgtt     1500
48 caatgtatag gtattaatca tgagtagacg ttttaaaaaa tcacgttcac agaaagtga     1560
49 gcgaagtgtt aatatagttt tgctgactat ttatttattg ttagtttggt ttttattggt     1620
50 cttaatcttt aagtacaata tccttgcttt tagatatctt aatctagtgg taactgcgtt     1680

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/552,394

TIME: 10:04:37

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

```

51 agtcctacta gttgccttgg tagggctact cttgattatc tataaaaaag ctgaaaagtt 1740
52 tactatTTTT ctgttggtgt tctctatcct tgtcagctct gtgtcgctct ttgcagtaca 1800
53 gcagtttgtt ggactgacca atcgttttaa tgcgacttct aattactcag aatattcaat 1860
54 cagtgtcgct gtttttagcag atagtgcgat cgaaaatgtt acgcaactga cgagtgtgac 1920
55 agcaccgact gggactaata atgaaaatat tcagaaatta ctagctgata tcaagtcaag 1980
56 tcagaatacc gatttgacgg tcaaccagag ttcgtcttac ttggcagctt acaagagttt 2040
57 gattgcaggg gagactaagg ccattgtcct aaatagtgtc ttgaaaaca tcatcgagtc 2100
58 agagtatcca gactacgat cgaagataaa aaagatttat actaagggat tcaactaaaa 2160
59 agtagaagct cctaagacgt ctaagagtca gtctttcaat atctatgtta gtggaattga 2220
60 cacctatggc cctattagtt cgggtgtcgc atcagatgtc aacatcctga tgactgtcaa 2280
61 tcgagatacc aagaaaatcc tcttgaccac aacgccacgt gatgcctatg taccaatcgc 2340
62 agatggtgga aataatcaaa agataaaatt gactcatgcy ggcatttatg gagttgattc 2400
63 gtccattcac accttagaaa atctctatgg agtggatata aattactatg tgcgattgaa 2460
64 cttcacttcg tttttgaaat tgattgattt gttgggtgga attgatgttt ataattgatca 2520
65 agaatttact gccatacga atggaaaagta ttaccctgca ggcaatgttc atcttgattc 2580
66 agaacaggct ctcggttttg ttcgtgagcg ctactcccta gcagatggcg atcgtgaccg 2640
67 cgggcgccat caacaaaagg tgattgtggc tatecttcaa aaattaacgt caaccgaagt 2700
68 gctgaaaaat tatagtacga tcattaatag cttgcaagat tctatccaaa caaatatgcc 2760
69 acttgagacc atgataaatt tggatcaatgc tcagttagaa agtggaggga attataaagt 2820
70 aaattctcaa gattttaaag ggacaggtcg gatggatctt ccttcttatg caatgccaga 2880
71 cagtaacctc tatgtgatgg aaatagatga tagtagttta gctgtagtta aagcagctat 2940
72 acaggatgtg atggagggtg gatgaaatga tagacatcca ttcgcatatc gtttttgatg 3000
73 tagatgacgg tcccaagtca agagaggaaa gcaaggctct cttggcagaa tctacagac 3060
74 agggggtgcy aaccattgtt tctacctctc accgtcgcaa gggcatgttt gaaactccgg 3120
75 aagagaagat gcagaaaaac tttcttcagg ttccggaaat agctaaggaa gtggcgagtg 3180
76 acttggtcat tgcttacggg gctgaaattt attcacacc agatgttctg gataagctgg 3240
77 aaaaaaagcy gattccgacc ctcaatgata gtcgttatgc cttgatagag tttagtatga 3300
78 acactcctta tcgcgatatt catagcgctt tgagcaagat cttgatgttg ggaattactc 3360
79 cagtcattgc ccacattgag cgctatgatg ctcttgaaaa taatgaaaaa cgcgttcgag 3420
80 aactgatcga tatgggctgt tacacgcaag taaatagtgc acatgtctc aaacccaaac 3480
81 tttttggcga acgttataaa ttcataaaaa aaagagctca gtatttttta gagcaggatt 3540
82 tggttcatgt cattgcaagt gatatgcaca atctagacgg tagacctct catatggcag 3600
83 aagcatatga cttgtttacc caaaaatacg gagaagcgaa ggctcaggaa ctttttatag 3660
84 acaatcctcg aaaaattgta atggatcaac taatttagga gaaatgatga aagaacaaaa 3720
85 tacgatagaa atcgatgtat ttcaattagt taaaagcttg tggaaacgca agctaattgat 3780
86 tttaatagtg gcacttgatg cagggtcggg ggcttttgca tatagcactt ttattgttaa 3840
87 gccagaatat acgagtacca cgcgaattta cgtagtgaat cgcaatcaag gagacaagcc 3900
88 ggggttgaca aatcaggatt tgcaggcagg aacttatctg gtaaaagact accgtgagat 3960
89 tatcctttcg caggatgttt tggaggaagt tgtttctgat 4000
91 <210> SEQ ID NO: 2
92 <211> LENGTH: 1019
93 <212> TYPE: DNA
94 <213> ORGANISM: Streptococcus pneumoniae
96 <400> SEQUENCE: 2
97 atgaaattga agtttcttat aacaaattta tttcatgtct ttttgtctaa tctgattaca 60
98 attgtcacat cggttatagt tgtactaatt ttacaaaaa ttatgggagt aactgagtat 120
99 agttattggc aactatatat tttttaccta acatatattg gtttttttca tctgggttgg 180
100 attgatggaa tttatcttaa atatggtgga ttagagtacc agaatttaga taagaaacag 240
101 ttttattctc aaatacttca atttttcagt tttttaattt taatttcttt tctattattt 300

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/552,394

TIME: 10:04:37

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

```

102 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgactatt 360
103 attagtatga tagttacaaa ttttaagaatg ttatttggtt atattttgca gatgacaaat 420
104 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta 480
105 tttctgttta ttatatttaa atggcatgaa tacaaggtaa tgatttgggc ggatgtttta 540
106 ggaaggacat tttctctcct actttctttt tggacttgta aagatattgt ttttcaatcc 600
107 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaac 660
108 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaattcaa 720
109 tgggaattgga atatcgaaac attcgggaaa gtatcactga tgctaagcat ctctaattta 780
110 ttaatgactt ttattaatgc gattgggttta gttgtctttc ctttgttaaa acggacaaaa 840
111 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt 900
112 gcaatattgc tcttttatta tcctttaaaa attattctag atctttgggt gccagcttat 960
113 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga agggaagat 1019
115 <210> SEQ ID NO: 3
116 <211> LENGTH: 1019
117 <212> TYPE: DNA
118 <213> ORGANISM: Streptococcus pneumoniae
120 <400> SEQUENCE: 3
121 atgaaattga agtttcttat aacaaatttg tttcatgtct ttttgtctaa tctgattaca 60
122 attgtcacat cggttatagt tgtactaatt ttacccaaaa ttatgggagt aactgagtat 120
123 agttattggc aactatatat tttttaccta acatatattg gtttttttca tctgggttgg 180
124 attgatggaa tttatcttaa atatggtgga ttagagtacc agaatttaga taagaaacag 240
125 ttttattctc aaatacttca attttccagt tttttaattt taatttcttt tctattattt 300
126 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgactatt 360
127 attagtatga tagttacaaa ttttaagaatg ttattcggtt atattttgca gatgacaaat 420
128 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta 480
129 tttctgttta ttatatttaa atggcatgaa tacaaggtaa tgatttgggc ggatgtttta 540
130 ggaaggacat tttctctcct actttctttt tggatttgta aagatattgt ttttcaatcc 600
131 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaac 660
132 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaattcaa 720
133 tgggaattgga atatcgaaac attcgggaaa gtatcactga cgctaagcat ctctaattta 780
134 ttaatgactt ttattaatgc gattgggttta gttgtctttc ctttgttaaa acggacaaaa 840
135 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt 900
136 gcaatattgc tcttttatta tcctttaaaa attattctag atctttgggt gccagcttat 960
137 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga agggaagat 1019
139 <210> SEQ ID NO: 4
140 <211> LENGTH: 1019
141 <212> TYPE: DNA
142 <213> ORGANISM: Streptococcus pneumoniae
144 <400> SEQUENCE: 4
145 atgaaattga agtttcttat aacaaatttg tttcatgtct ttttgtctaa tctgattaca 60
146 attgtcacat cggttatagt tgtactaatt ttacccaaaa ttatgggagt aactgagtat 120
147 agttattggc aactatatat tttttaccta acatatattg gtttttttca tctgggttgg 180
148 attgatggaa tttatcttaa atatggtgga ttagagtacc agaatttaga taagaaacag 240
149 ttttattctc aaatacttca attttccagt tttttaattt taatttcttt tctattattt 300
150 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgaccatt 360
151 attagtatga tagttacaaa ttttaagaatg ttattcggtt atattttgca gatgacaaat 420
152 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta 480
153 tttctgttta ttatatttaa atggcatgaa tacaaggtaa tgatttgggc ggatgtttta 540
154 ggaaggacat tttctctcct actttctttt tggatttgta aagatattgt ttttcaatcc 600

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/552,394

TIME: 10:04:37

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

```

155 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaat 660
156 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaaattcaa 720
157 tggaattgga atatcgaaac attcgggaaa gtatcactga cgctaagcat ctctaattta 780
158 ttaatgactt ttattaatgc gattgggtta gttgtctttc ctttggttaa acggacaaaa 840
159 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt 900
160 gcaatattgc tcttttatta tcctttaaaa attattctag atccttgggt gccagcttat 960
161 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga agggaagat 1019
163 <210> SEQ ID NO: 5
164 <211> LENGTH: 1019
165 <212> TYPE: DNA
166 <213> ORGANISM: Streptococcus pneumoniae
168 <400> SEQUENCE: 5
169 atgaaattga agtttcttat aacaaatttg tttcatgtct ttttgtctaa tctgattaca 60
170 attgtcacat cggttatagt tgtactaatt ttacaaaaaa ttatgggagt aactgagtat 120
171 agttattggc aactatatat tttttaccta acatatattg gtttttttca tctgggttgg 180
172 attgatggaa tttatcttaa atatggtgga ttagagtacc agaatttaga taagaaacag 240
173 ttttattctc aaatacttca atttttcagt tttttaattt taatttcttt tctattattt 300
174 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgactatt 360
175 attagtatga tagttacaaa ttaagaatg ttattcgttt atattttgca gatgacaaat 420
176 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta 480
177 tttctgttta ttatatttaa atggcatgaa tacaaggtaa tgatttgggc ggatgtttta 540
178 ggaaggacat tttctctcct actttctttt tggatttgta aagatattgt ttttcaatcc 600
179 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaat 660
180 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaaattcaa 720
181 tggaattgga atatcgaaac attcgggaaa gtatcactga cgctaagcat ctctaattta 780
182 ttaatgactt ttattaatgc gattgggtta gttgtctttc ctttggttaa acggacaaaa 840
183 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt 900
184 gcaatattgc tcttttatta tcctttaaaa attattctag atccttgggt gccagcttat 960
185 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga agggaagat 1019
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 1019
189 <212> TYPE: DNA
190 <213> ORGANISM: Streptococcus pneumoniae
192 <400> SEQUENCE: 6
193 atgaaattga agtttcttat aacaaattta tttcatgtct ttttgtctaa tctgattaca 60
194 attgtcacat cggttatagt tgtactaatt ttacaaaaaa ttatgggagt aactgagtat 120
195 agttattggc aactatatat tttttaccta acatatattg gtttttttca tctgggttgg 180
196 attgatggaa tttatcttaa atatggtgga ttagagtacc agaatttaga taagaaacag 240
197 ttttattctc aaatacttca atttttcagt tttttaattt taatttcttt tctattattt 300
198 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgactatt 360
199 attagtatga tagttacaaa ttaagaatg ttatttgttt atattttgca gatgacaaat 420
200 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta 480
201 tttctgttta ttatatttaa atggcatgaa tacaaggtaa tgatttgggc ggatgtttta 540
202 ggaaggacat tttctctcct actttctttt tggacttgta aagatattgt ttttcaatcc 600
203 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaac 660
204 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaaattcaa 720
205 tggaattgga atatcgaaac attcgggaaa gtatcactga tgctaagcat ctctaattta 780
206 ttaatgactt ttattaatgc gattgggtta gttgtctttc ctttggttaa acggacaaaa 840
207 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt 900

```

## RAW SEQUENCE LISTING

DATE: 08/22/2006

PATENT APPLICATION: US/10/552,394

TIME: 10:04:37

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

```

208 gcaatattgc tcttttatta tcctttaaaa attattctag atctttgggt gccagcttat      960
209 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga aggggaagat      1019
211 <210> SEQ ID NO: 7
212 <211> LENGTH: 1019
213 <212> TYPE: DNA
214 <213> ORGANISM: Streptococcus pneumoniae
216 <400> SEQUENCE: 7
217 atgaaattga agtttcttat aacaaatttg tttcatgtct ttttgtctaa tctgattaca      60
218 attgtcacat cggttatagt tgtactaatc ttaccaaaaa ttatgggagt aactgagtat      120
219 agttattggc aactatatat tttttacctt acatatattg gtttttttca tctggggttg      180
220 attgatggaa tttatcttaa atatgggtgga ttagagtacc agaatttaga taagaaacag      240
221 ttttattctc aaatacttca atttttcagt tttttaattt taatttcttt tctattattt      300
222 ggttttaact tattgattgt gacagatcca aatgcaaaat atatttataa catgactatt      360
223 attagtatga tagttacaaa ttttaagaatg ttattcgttt atattttgca gatgacaaat      420
224 cgattaaagg atagctctat aattctgata agtgatcgcg ttatatatat ttttctttta      480
225 tttctgttta ttatatTTAA atggcatgaa tacaaggtaa tgatttgggc ggatgtttta      540
226 ggaaggacat tttctctcct actttctttt tggatttgta aagatattgt ttttcaatcc      600
227 ttatccgagt tcatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaat      660
228 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaaattcaa      720
229 tggaaattgga atatcgaaac attcgggaaa gtatcactga cgctaaacat ctctaattta      780
230 ttaatgactt ttattaatgc gattgggttta gttgtctttc ctttgttaaa acggacaaaa      840
231 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct gatcatgttt      900
232 gcaatattgc tcttttatta tcctttaaaa attattctag atctttgggt gccagcttat      960
233 cgggatgcgt tgatttttat ggctcttatt tttcctatgt caatttatga aggggaagat      1019
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 1019
237 <212> TYPE: DNA
238 <213> ORGANISM: Streptococcus pneumoniae
240 <400> SEQUENCE: 8
241 atgaaattga agtttcttat aacaaatttg tttcatgttc ttttgtctaa tctgattaca      60
242 attcttacat cagttatagt tgtactaatt ttaccaaaaa ttatgggagt aactgagtat      120
243 agttattggc aactatatat tttttacctt acatatattg gtttttttca tctgggatgg      180
244 attgatggaa tttatcttaa atatggcgga ttagagtacc agaacttaga taagaaacag      240
245 ttttattctc aaatacttca attttccagt tttttaattt taatttcttt tctattattt      300
246 ggttttaact tattgactgt gacagatcaa aatgcaaaat atatttataa catgactatt      360
247 attagtatga tagttacaaa ttttaagaatg ttattcgttt atattttgca gatgacaaat      420
248 cgattaaagg atagttccat cattctaatt agtgatcgcg ttatatatgt tattctttta      480
249 ttcctgttta ttatatTTAA atggcatgaa tacaaggtaa tgatttgggc agatgttttg      540
250 ggaaggacat tttctctcct actttctttt tggatttgta aagatattgt ttttcaatcc      600
251 ttatccgagt ttatattgga tctgagagag tcttttgaca atatccgtgt tggaaatcaat      660
252 ttaatgttat ccaatattgc aagtagtatg attattggta ttgttcgaat gggaaattcaa      720
253 tggaaattgga atatcgaaac attcgggaaa gtatcactga cgctaaacat ctctaattta      780
254 ttaatgactt ttattaatgc gattgggttta gttgtttttc ctttgttaaa acggacaaaa      840
255 acggaaaatt tatctaaaat ttattccaac ttaagaaatg ttttgatgct tatcatgttt      900
256 cggattttgc tcatttacta tcctttaaaa attgtattag acctctgggt gccagcctat      960
257 caagatgcct tgattttcat ggctcttatt tttcctatgt caatttatga aggggaagat      1019
259 <210> SEQ ID NO: 9
260 <211> LENGTH: 1019
261 <212> TYPE: DNA

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/552,394

DATE: 08/22/2006  
TIME: 10:04:38

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:24; N Pos. 87,583 ✓

Seq#:27; N Pos. 87

Seq#:28; N Pos. 613

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/552,394

DATE: 08/22/2006

TIME: 10:04:38

Input Set : F:\40794.txt

Output Set: N:\CRF4\08222006\J552394.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60  
 M:341 Repeated in SeqNo=24  
 L:644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60  
 L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:600  
 L:1038 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:1526 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:2192 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:2253 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:3910 M:283 W: Missing Blank Line separator, <220> field identifier  
 L:4276 M:283 W: Missing Blank Line separator, <220> field identifier